

CATALOGUE

OF THE

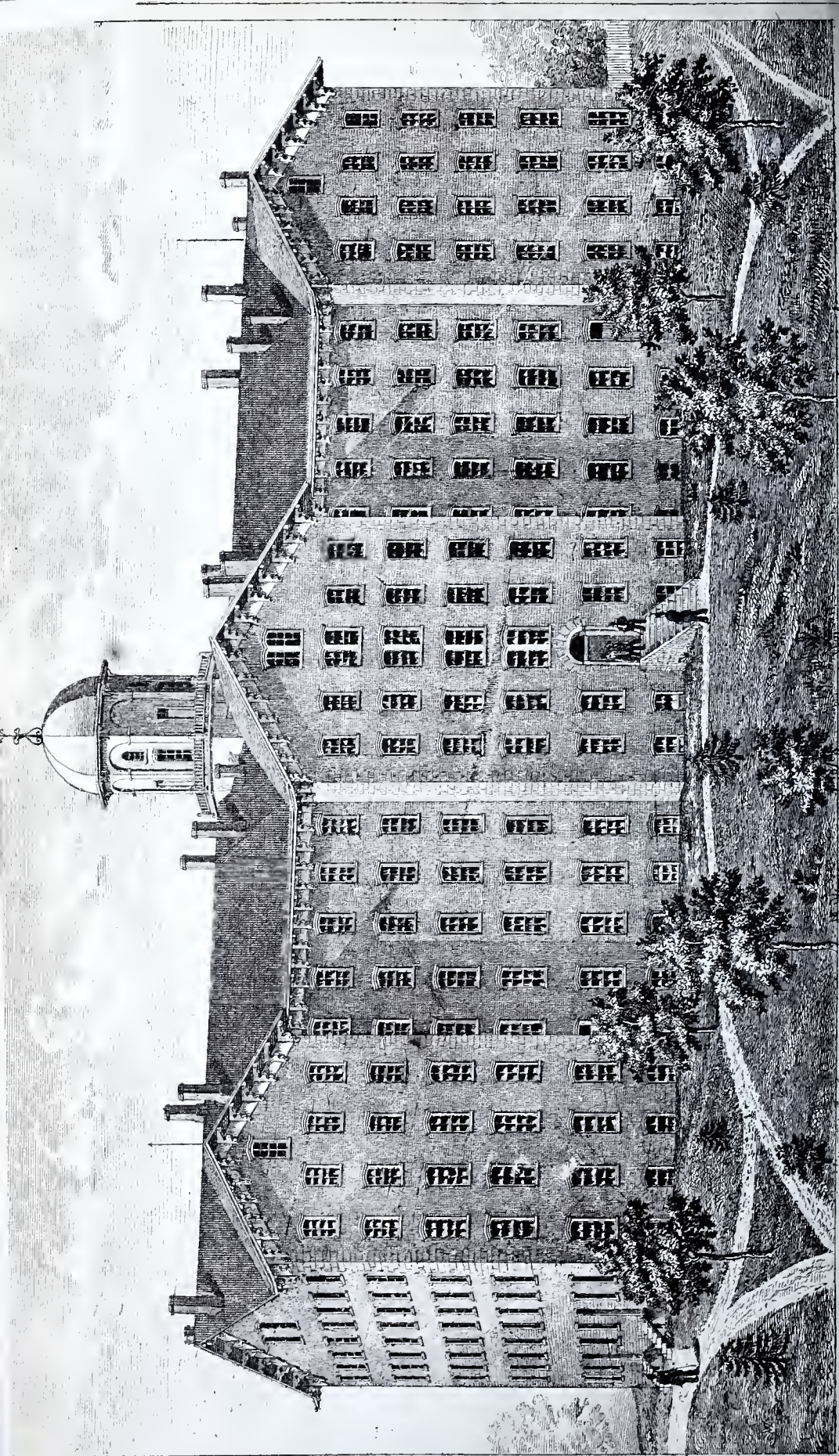
Pennsylvania State College,

1873-4.

PHILADELPHIA:

JAS. B. RODGERS CO., PRINTERS, 52 & 54 NORTH SIXTH STREET.

1874.



PENNSYLVANIA STATE COLLEGE.

CATALOGUE

OF THE

Pennsylvania State College,

1873-4.

PHILADELPHIA:

JAS. B. RODGERS CO., PRINTERS, 52 & 54 NORTH SIXTH STREET.

1874.

OBJECT OF THE INSTITUTION.

“THE leading object shall be, without excluding other Scientific and Classical Studies, and including Military Tactics, to teach such branches of learning as are related to Agriculture and the Mechanic Arts, in such manner as the Legislature of the State may prescribe, in order to promote the liberal and practical education of the Industrial Classes in the several pursuits and professions in life.”

Extract from Law of Congress, July 2d, 1862.

“Be it enacted by the Senate and House of Representatives, that the act of Congress of the United States, passed the second day of July 1862, entitled ‘An act donating lands to the several States and Territories which may provide Colleges for the benefit of Agriculture and the Mechanic Arts,’ be and the same is hereby accepted by the State of Pennsylvania, with all its provisions and conditions, and the faith of the State is hereby pledged to carry the same into effect.”

See Pennsylvania Laws 1863, p. 214.

College Officers.

Trustees.

EX-OFFICIO MEMBERS.

HIS EXCELLENCY, JOHN F. HARTRANFT,
GOVERNOR OF PENNSYLVANIA, HARRISBURG, PA.

HON. M. S. QUAY,
SECRETARY OF THE COMMONWEALTH, HARRISBURG, PA.

JAMES CALDER, D. D.,
PRESIDENT COLLEGE FACULTY, STATE COLLEGE, PA.

JACOB R. EBY,
PRESIDENT OF THE STATE AGRICULTURAL SOCIETY, HARRISBURG, PA.

ELECTED MEMBERS.

HON. A. O. HIESTER, HARRISBURG P. O., DAUPHIN Co.
JAMES KELLY, Esq., WILKINSBURG P. O., ALLEGHENY Co.
WM. B. ROBERTS, Esq., KING-OF-PRUSSIA P. O., MONTGOMERY Co.
HON. FREDERICK WATTS, CARLISLE P. O., CUMBERLAND Co.
HON. A. WILSON TAYLOR, INDIANA P. O., INDIANA Co.
JOSEPH C. TURNER, Esq., CHADD'S FORD P. O., CHESTER Co.
HON. DANIEL KAINE, UNIONTOWN P. O., FAYETTE Co.
GEN'L JAMES A. BEAVER, BELLEFONTE P. O., CENTRE Co.
HON. FRANCIS JORDAN, HARRISBURG P. O., DAUPHIN Co.

OFFICERS OF THE BOARD.

President,
HON. FREDERICK WATTS.

Treasurer,
MOSES THOMPSON, Esq.

Secretary,
JAMES CALDER, D. D.

Faculty.

PRESIDENT—REV. JAMES CALDER, D. D.,
PROFESSOR OF MENTAL AND MORAL SCIENCE.

VICE-PRESIDENT—JAMES Y. M'KEE, A. M.,
PROFESSOR OF ENGLISH LITERATURE, AND THE LATIN AND GREEK LANGUAGES.

EDWARD T. BURGAN, M. E.,
PRINCIPAL OF PREPARATORY DEPARTMENT, AND PROFESSOR OF ENGLISH BRANCHES.

REV. FRANCIS A. ROBINSON, A. M., Ph. D.,
PROFESSOR OF MATHEMATICS AND CIVIL ENGINEERING.

WILLIAM A. BUCKHOUT, S. M.,
PROFESSOR OF GEOLOGY, ZOÖLOGY, AND BOTANY.

JOHN HAMILTON, M. A. S.,
PROFESSOR OF AGRICULTURE.

JANE W. HOYT, A. M.,
PRECEPTRESS, AND INSTRUCTOR IN GERMAN AND FRENCH.

HIRAM COLLIER, A. M.,
PROFESSOR OF CHEMISTRY AND PHYSICS.

JOHN F. DOWNEY, S. M.,
ASSISTANT PROFESSOR OF MATHEMATICS, AND MILITARY INSTRUCTOR.

NELLIE E. CLOUGH,
INSTRUCTOR IN INSTRUMENTAL MUSIC.

Superintendents.

WM. CALVIN PATTERSON,
SUPERINTENDENT OF COLLEGE FARM.
P. O. :—State College, Centre Co.

WILLIAM C. HUEY,
SUPERINTENDENT OF CENTRAL EXPERIMENTAL FARM.
P. O. :—State College, Centre Co.

JOHN I. CARTER,
SUPERINTENDENT OF EASTERN EXPERIMENTAL FARM.
P. O. :—West Grove, Chester Co.

T. A. HOOD,
SUPERINTENDENT OF WESTERN EXPERIMENTAL FARM.
P. O. :—Indiana, Indiana Co.

JOHN I. WILLIAMS,
MASTER MECHANIC.

JAMES CLARK,
GARDENER.

THOMAS WOOD,
STEWARD.

ELIZA J. MATTERN,
MATRON.

College Military Organization.

Commandant, ... PROF. JOHN F. DOWNEY.
Quarter-Master, ... C. G. CAMPBELL

COMPANY A.

Captain, ... THOMAS W. BURKHOLDER.
Lieutenant, ... SAMUEL A. EASLEY, JR.
1st Sergeant, ... JOHN J. WALLACE.
2d " JAMES F. SLOAN.
3d " CHAUNCEY F. YORK.

COMPANY B.

Captain, ... FREDERICK CRUMBAUGH, JR.
Lieutenant, ... ORRIEN P. DOWNING.
1st Sergeant, ... J. EDWIN GLENN.
2d " WILLIAM CALDER, JR.
3d " WILLIAM M. MANLY.

MUSICIANS.

Principal Musician, ... JOHN B. ROBERTS.
Fifer, ... WILLIAM T. READ.
Tenor Drummer, ... B. FRANK KNOCHE.
 " " ALEX. H. ROBERTS.
Bass " A. EDGAR OSBORNE.

STUDENTS.

GRADUATES AT LAST COMMENCEMENT.

NAMES.	RESIDENCES.
ALLISON, WM. M., ...	Potter's Mills, Pa.
* BRUNER, WILLIAM S., ...	Columbia, Pa.
EWING, REBECCA H., ...	Angola, Ind.
ISETT, WILLIAM D., ...	Spruce Creek, Pa.
† MCKEE, CHARLES H., ...	Oakdale Station, Pa.

SENIORS.

BURKHOLDER, THOMAS W., ...	State College, Pa.
CAMPBELL, CURTIS G., ...	Johnstown, Pa.
CRUMBAUGH, FREDERICK, JR., ...	Chicago, Ill.
DOWNING, ORRIEN P., ...	Brooklyn, N. Y.
EASLEY, SAMUEL A., JR., ...	Circleville, Texas.
ELLIS, J. ALDER, JR., ...	Hughesville, Pa.
THOMPSON, W. HENRY, ...	Houserville, Pa.

JUNIORS.

CALDER, WILLIAM, JR., ...	Harrisburg, Pa.
GLENN, J. EDWIN, ...	Mansfield Valley, Pa.
ROBINSON, NELLIE S., ...	State College, Pa.
SLOAN, JAMES F., ...	Lock Haven, Pa.
WALLACE, JOHN J., ...	Coal Bluffs, Pa.
WILLARD, WILLIS J., ...	Jonesboro, Ill.

* Received Second Honor.

† Received First Honor.

STUDENTS.

SOPHOMORES.

NAMES.	RESIDENCES.
BARLOW, THOMAS W., ...	Philadelphia, Pa.
BARROWS, ROSS W., ...	Lock Haven, Pa.
BROWN, GEORGE A., ...	Lock Haven, Pa.
CALDER, CHARLES M., ...	State College, Pa.
CALDER, FRANCIS R., ...	Harrisburg, Pa.
CALDER, JAMES K., ...	State College, Pa.
CUNNINGHAM, JAMES E., ...	Harrisburg, Pa.
HENDERSON, GEORGE A., ...	New York, N. Y.
JONES, J. MILEY, ...	Harrisburg, Pa.
KELLER, B. FRANKLIN, ...	Boalsburg, Pa.
LYTLE, SAMUEL F., ...	State College, Pa.
MANLY, WILLIAM M., ...	Richmond, Va.
McFARLANE, J. KYLE, ...	Boalsburg, Pa.
ORVIS, ELLIS L., ...	Bellefonte, Pa.
OSBORNE, A. EDGAR, ...	Media, Pa.
SCHROEDER, WILLIAM F., ...	Lock Haven, Pa.
STULL, JAMES M., ...	Heriottsville, Pa.
WILLARD, CHARLES F., ...	Jonesboro, Ill.
WOLFINGER, WILLIAM H., ...	Harrisburg, Pa.
YORK, CHAUNCEY F., ...	Sherman, Mich.

STUDENTS.

FRESHMEN.

NAMES.	RESIDENCES.
CALDER, A. RUSSELL, ...	State College, Pa.
CHAMBERS, MARION J., ...	State College, Pa.
COLLIER, CORA, ...	State College, Pa.
DEVLING, MARY E., ...	Bellefonte, Pa.
ELDRIDGE, LEWIS M., ...	Philadelphia, Pa.
GAMBLE, JAMES E., ...	Altoona, Pa.
GAW, WILLIAM A., ...	Philadelphia, Pa.
GERMAN, L. WESLEY, ...	Harrisburg, Pa.
GIBSON, R. WEIR, ...	Williamsport, Pa.
HOFFER, C. URSINUS, ...	Bellefonte, Pa.
JACKMAN, GEORGE F., ...	Loek Haven, Pa.
JOHNSTONBAUGH, GEORGE W., ...	Bellefonte, Pa.
KAUFMAN, CHARLES B., ...	Lancaster, Pa.
KEHL, WILLIAM J., ...	Harrisburg, Pa.
KEPHART, S. GRAY, ...	Filmore, Pa.
LANDES, GEORGE W., ...	Milroy, Pa.
LAUBACH, GEORGE F., ...	Laubach, Pa.
LAWSON, HARRY C., ...	Philadelphia, Pa.
MCNEAL, HORACE, ...	Philadelphia, Pa.
MEGARGEE, JOHN A., ...	Gum Tree, Pa.
POTTER, GEORGE L., JR., ...	Bellefonte, Pa.
RAY, SYLVESTER D., ...	Bellefonte, Pa.
ROBERTS, ALEXANDER H., ...	Harrisburg, Pa.
ROBINSON, EDWARD O., ...	State College, Pa.
WARD, J. MONTGOMERY.	Bellefonte, Pa.

STUDENTS.

PREPARATORY.

NAMES.	RESIDENCES.
ALLISON, EDWARD,	Potter's Mills, Pa.
BARR, JOHN F.,	Waynesboro, Pa.
BATHGATE, SAMUEL C.,	Waterford, Pa.
BLOOM, CHARLES J.,	Pine Grove Mills, Pa.
BOTTORFF, THOMAS W.,	Houserville, Pa.
BOYER, FRANKLIN D.,	Harrisburg, Pa.
BROWN, JOHN W.,	Loek Haven, Pa.
BROUWER-ANCHER, GEO. D.,	Jersey City, N. J.
CALDER, HOWARD L.,	State College, Pa.
CALDER, MARY E.,	State College, Pa.
CALDER, WILLIAM C.,	State College, Pa.
CHAMBERS, EDWARD R.,	State College, Pa.
CHRISTIE, EDWARD H.,	Aberdeen, Md.
CLARK, CHARLES H.,	Dauphin, Pa.
COLLIER, EDMUND F.,	State College, Pa.
COOPER, E. MARVIN,	Union City, Pa.
COWEN, GEORGE L.,	Roaring Springs, Pa.
DAVIS, WILLIAM P.,	Davis' Grove, Pa.
DEVLING, E. KATE,	Belleville, Pa.
DOWNING, CHARLES,	Brooklyn, N. Y.
EVEY, ALLISON H.,	State College, Pa.
FERNALD, MARIE L.,	New Orleans, La.
FERNALD, MABEL W.,	New Orleans, La.
FISH, CLAYTON D.,	Hillsdale, Mich.
FORSTER, CALEB L.,	Renovo, Pa.
FOSTER, CHARLES H.,	State College, Pa.
FRAZER, J. WILSON,	Lancaster, Pa.
FULTON, JAMES I.,	State College, Pa.
GLENN, WILBERT,	State College, Pa.
GREENAWALT, CHARLES F.,	Harrisburg, Pa.
GREENAWALT, FRANK B.,	Dauphin, Pa.
GREENAWALT, JOHN E.,	Dauphin, Pa.
HARLAN, CORA,	Hammorton, Pa.
HEACOX, SAMUEL C.,	Latrobe, Pa.
HILL, ELIZABETH,	Jacksonville, Ill.
HOUSTON, C. FRANK,	Belleville, Pa.
HUEY, C. LIZZIE,	State College, Pa.
HUEY, IRA C.,	State College, Pa.
HUFF, J. HARRY,	Wilkesburg, Pa.
KELLER, WILLIAM H.,	Loek Haven, Pa.
KENNEDY, JOHN H.,	Philadelphia, Pa.
KEPHART, DORA,	Fillmore, Pa.

PREPARATORY—Continued.

NAMES.	RESIDENCES.
KEPHART, P. BENNER, ...	Fillmore, Pa.
KNOCHE, B. FRANK, ...	Harrisburg, Pa.
LYTLE, LAURA BELL, ...	State College, Pa.
MAPLE, ANDREW P., ...	Pittsburg, Pa.
MCALPINE, WILLIAM B., ...	Baltimore, Md.
MCCombs, JAMES KELLY, ...	Wilkesburg, Pa.
MCLAUGHLIN, W. ALBERT, ...	White House, Pa.
McKEE, EDWARD L., ...	Pardo Station, Pa.
McKNIGHT, JOHN A., ...	Mount Lebanon, Pa.
MITCHEL, GEORGE W., ...	Wilkesbarre, Pa.
MOORE, MARY ELLEN, ...	Houserville, Pa.
MUSSER, LUTHER N., ...	Pine Grove Mills, Pa.
OSMAN, IRENA RUTH, ...	State College, Pa.
OSMAN, NORA E., ...	Lemont, Pa.
PATTERSON, E. BLANCHE, ...	State College, Pa.
PATTERSON, HARRY J., ...	State College, Pa.
PATTERSON, MARY M., ...	Yellow Springs, Pa.
READ, WILLIAM T., ...	Newport, R. I.
REEVES, CHARLES F., ...	Lock Haven, Pa.
ROBERTS, JOHN B., ...	Harrisburg, Pa.
RUPERT, WILLIAM W., ...	Zion, Pa.
SCHMUCKER, JAMES E., ...	Williamsburg, Pa.
SCOTT, JOHN R., ...	Erie, Pa.
SELLERS, ANGELINA, ...	Oak Hall, Pa.
SHAW, ROBERT C., ...	Neshanoek Falls, Pa.
SHOEMAKER, R. DRAPER, ...	Chester, Pa.
SLACK, JENNIE C., ...	Lemont, Pa.
SMITH, J. MCCARTNEY, ...	Altoona, Pa.
SMITH, M. FILLMORE, ...	Ligonier, Pa.
STACKHOUSE, ANNA M., ...	Hammorton, Pa.
STACKHOUSE, THOMAS W., ...	Hammorton, Pa.
STALLKNECHT, AUGUST C., ...	Baltimore, Md.
STANFORD, LYNN C., ...	Erie, Pa.
STURDEVANT, CARRIE E., ...	Julian Furnace, Pa.
SUPPES, GEORGE P., ...	Johnstown, Pa.
WALLACE, HENRY W., ...	New Castle, Pa.
WILLARD, SIMON, ...	Jonesboro, Ill.
WILLS, ROBERT, ...	Warrior's Mark, Pa.
WILSON, DANIEL L., ...	Hartleton, Pa.
WOOD, EDWIN D., ...	State College, Pa.
WOOD, IDA M., ...	State College, Pa.
WOOD, NANNIE G., ...	State College, Pa.
WOOD, WILLIAM P., ...	State College, Pa.
WOOD, WALTER W., ...	State College, Pa.
WYLIE, SAMUEL, ...	Bellefonte, Pa.

RECAPITULATION.

Graduates, ...	5
Seniors, ...	7
Juniors, ...	6
Sophomores, ...	20
Freshmen, ...	25
Preparatory, ...	87
Males, ...	126
Females, ...	24
Total, ...	150

STATES REPRESENTED.

Illinois, ...	5	New Jersey, ...	1
Indiana, ...	1	New York, ...	3
Louisiana, ...	2	Rhode Island, ...	1
Maryland, ...	3	Texas, ...	1
Michigan, ...	2	Virginia, ...	1

COUNTIES OF PENNSYLVANIA.

Allegheny, ...	6	Lancaster, ...	3
Blair, ...	5	Lawrence, ...	2
Cambria, ...	2	Luzerne, ...	1
Centre, ...	56	Lycoming, ...	2
Chester, ...	5	Mercer, ...	1
Clinton, ...	9	Mifflin, ...	1
Cumberland, ...	1	Montgomery, ...	1
Dauphin, ...	15	Northampton, ...	1
Delaware, ...	2	Philadelphia, ...	6
Erie, ...	3	Union, ...	1
Franklin, ...	1	Washington, ...	1
Huntingdon, ...	2	Westmoreland, ...	2
Juniata, ...	1		
		Total, ...	150

COURSES OF STUDY.

Agricultural Course.

PREPARATORY.

Orthography,
Reading,
Penmanship,
English Grammar,
Geography (Political and Mathematical),

Map Drawing,
History of the United States,
Arithmetic (Completed),
Elementary Algebra,
Elementary Latin and Greek (Optional).

FRESHMAN.

FALL SESSION.

General Agriculture (*Allen*),
Higher Algebra,
Book Keeping,
Elementary Physics,
Physical Geography,
Art of Composition,
Latin and Greek (Optional).

SPRING SESSION.

General Agriculture (Continued),
Geometry (Four Books),
Higher Algebra (Completed),
Art of Composition,
Elementary Botany,
Elements of Chemistry,
Latin and Greek (Optional).

SOPHOMORE.

FALL SESSION.

Plant Culture,
Geometry (Completed),
General Chemistry,
Botany,
German,
French (Optional).

SPRING SESSION.

Soils,
Horticulture,
Trigonometry,
Surveying,
General Chemistry,
Organic Chemistry (Lectures),
German,
French (Optional).

JUNIOR.

FALL SESSION.

Farm Machinery,
 Rural Laws,
 Surveying (with field practice),
 Political Economy,
 English Literature,
 Agricultural Chemistry,
 Human Anatomy and Physiology,
 Blow Pipe Analysis.

SPRING SESSION.

Domestic Animals,
 Fertilizers,
 Elements of Zoölogy,
 English Literature,
 History,
 Industrial Drawing,
 Physics,
 Evidences of Christianity,
 Constitution of the United States and
 of Pennsylvania,
 Agricultural Chemistry,
 Qualitative Analysis.

SENIOR.

FALL SESSION.

Rural Architecture,
 Veterinary Science,
 Original Essays and Discussions on
 Agricultural Subjects,
 Moral Philosophy,
 Logic,
 History,
 Physics (with Laboratory Practice),
 Principles of Geology,
 Civil Engineering,
 Economic Zoölogy.

SPRING SESSION.

Landscape Gardening,
 Rural Economy,
 Original Essays and Discussions on
 Agricultural Subjects,
 Mental Philosophy,
 Rhetoric,
 Physics (with Laboratory Practice),
 Economic Geology,
 Astronomy,
 Mineralogy and Crystallography (Lec-
 tures).

Scientific Course.

PREPARATORY.

Orthography,
 Reading,
 Penmanship,
 English Grammar,
 Geography (Political and Mathematical),

Map Drawing,
 History of the United States,
 Arithmetic (Completed),
 Elementary Algebra,
 Elementary Latin and Greek (Optional).

FRESHMAN.

FALL SESSION.

General Agriculture, (*Allen*),
 Higher Algebra,
 Book-Keeping,
 Elementary Physics,
 Physical Geography,
 Art of Composition,
 Latin and Greek (Optional).

SPRING SESSION.

General Agriculture, (Continued),
 Geometry (Four Books),
 Higher Algebra (Completed),
 Art of Composition,
 Elementary Botany,
 Elements of Chemistry,
 Latin and Greek (Optional).

SOPHOMORE.

FALL SESSION.

Geometry (Completed),
 General Chemistry,
 Botany,
 German,
 French, (Optional),

SPRING SESSION.

Trigonometry,
 Surveying,
 General Chemistry,
 Organic Chemistry (Lectures),
 German,
 French.

JUNIOR.

FALL SESSION.

Political Economy,
 English Literature,
 Human Anatomy and Physiology,
 Surveying (with Field Practice),
 Analytical Geometry,
 German or French,
 Blow Pipe Analysis.

SPRING SESSION.

Elements of Zoölogy,
 English Literature,
 Physics,
 History,
 Evidencees of Christianity,
 Constitution of the United States and of
 Pennsylvania.
 Qualitative Analysis,
 Analytical Geometry,
 Calculus.

SENIOR.

FALL SESSION.

Moral Philosophy,
 Logic,
 History,
 Physics (with Laboratory Practice),
 Principles of Geology,
 Civil Engineering,
 Crystallography (Lectures),
 Comparative Anatomy and Physiology.

SPRING SESSION.

Mental Philosophy,
 Rhetoric,
 Physics, (with Laboratory Practice),
 Astronomy,
 Mechanics,
 Mineralogy,
 Technical Chemistry,
 Paleontology.

Classical Course.

PREPARATORY.

Orthography,
Reading,
Penmanship,
English Grammar,
Geography (Political and Mathematical),
Map Drawing,

History of the United States.
Arithmetic (Completed),
Elementary Algebra,
Latin Grammar and Reader,
Caesar and Latin Composition,
Greek Grammar and Reader.

FRESHMAN.

FALL SESSION.

General Agriculture,
Higher Algebra,
Book-Keeping,
Virgil's Æneid,
Xenophon's Anabasis,
Greek Composition.

SPRING SESSION.

General Agriculture,
Geometry (Four Books),
Higher Algebra (Completed),
Cicero's Orations,
Latin Composition,
Herodotus,
Greek Composition.

SOPHOMORE.

FALL SESSION.

Geometry (Completed),
General Chemistry,
Botany,
Horace's Odes,
Plato's Apology,
Greek Composition.

SPRING SESSION.

Trigonometry,
Surveying,
General Chemistry,
Livy,
Homer's Iliad.

JUNIOR.

FALL SESSION.

Political Economy,
English Literature,
Human Anatomy and Physiology,
Surveying (with Field Practice),
Horace's Epistles and Satires,
Thucydides,
Analytical Geometry (Optional),

SPRING SESSION.

Elements of Zoölogy,
English Literature,
Physics,
History,
Evidences of Christianity,
Constitution of the United States and of
Pennsylvania,
Tacitus' Histories,
Ædipus Rex,
Analytical Geometry (Optional),
Calculus (Optional).

SENIOR.

FALL SESSION.

Moral Philosophy,
 Logic,
 History,
 Physics (with Laboratory Practice),
 Principles of Geology,
 Civil Engineering (Optional),
 Cicero's De Officiis,
 Demosthenes De Corona,
 Hebrew (Optional).

SPRING SESSION.

Mental Philosophy,
 Rhetoric,
 Physics (with Laboratory Practice),
 Astronomy,
 Mechanics (Optional),
 History of Greek and Roman Literature,
 Hebrew (Optional).

MILITARY TACTICS.

In addition to the drill in Infantry Tactics during the entire course, the classes will receive the following instruction:

SOPHOMORES.—Upton's Infantry Tactics—two recitations each week.

JUNIORS.—Weekly lectures during the Fall Session on Artillery Tactics and the use of Artillery. During part of the Spring Session, practice in the field with the pieces. Bayonet Exercise.

SENIORS.—Weekly lectures during half of the Spring Session on Cavalry Tactics and the use of Cavalry as a branch of the U. S. Service. Sabre Exercise.

The military instruction given is in accordance with the systems of Tactics recently adopted by the War Department, and now in use in the United States Army.

COMPOSITION AND DECLAMATION.

During both Sessions of the College Year, Composition and Declamation are required of Students in all the Courses of Study.



GENERAL PRINCIPLES.



PENNSYLVANIA STATE COLLEGE,

AS ITS NAME INDICATES, is a State, and not a Denominational, Institution. This Institution, the aim of which is to combine practical with theoretical culture in the higher departments of Education, and especially to promote improvement in Agriculture, the Mechanic Arts and the application of those natural and abstract Sciences which have most direct bearing upon the every-day affairs of life, is now in the fifteenth year of its History. This College claims to have accomplished as much as any in the land toward the true purpose of its class—that of *imparting a liberal, practical education to the working classes*. Here, Farming is not an *ad captandum* branch in the Catalogue, but a regular and productive pursuit of the student; Chemistry is practical analysis in the Laboratory, based upon the principles of the text-book; Botany is the collection and study of the plants themselves, not of their pictures; Mathematics carried into the field, constitutes the Practical Surveyor; and so of other studies.

In both departments, therefore, the practical as well as the theoretical, it is claimed that the operations of the Institution have been successful. On the one hand, the studies and mental exercises of the student in the recitation and lecture room have been as satisfactory and his progress as substantial, as if his leisure hours had been given to useless sport, aimless reading, or other and worse indulgences; while, on the other hand, by the labor of ten hours a week, on the farm or in the garden, laboratory, or other field of practical science, not only have his health of body and mind been promoted and his theoretic studies rendered practically valuable, but much of the work of a large farm has been performed, and its various crops have been well planted, cultured and housed.

It would occupy too much space here to set forth the minute parts of the plan by which these results have been accomplished. The following may be stated as the general fundamental principles of the educational system of this Institution :

I. Intended for the benefit of the agricultural and other industrial classes, many of whose youth are backward in their educational preparation, a Preparatory Department has been established into which students are admitted who have not advanced beyond the requirements of an ordinary English education ; provided the applicant be fourteen years of age, with sound intellect, good health, and proper moral character. Students of more advanced age and scholarship will be admitted to the class for which, on examination, they may be found qualified

II. A knowledge of certain branches is indispensable to all, without reference to class or profession. These are: 1. The branches embraced in what is called a sound English education ; 2. A knowledge of the structure and laws of health of the human body ; 3. A knowledge of the constitution and government of the country ; And 4. A knowledge of the great principles of man's relation to the Deity ; and from the study of these, no student can be exempted. But beyond these, the parent having the right to select the life pursuits of his children, their studies shall be confined to such branches and exercises as the Faculty of instruction shall deem proper in preparation therefore.

III. The usefulness of every branch of human knowledge depending less on its intrinsic nature than upon the mode of its acquisition, the art is here taught with the science, the practice with the theory, the use with the learning ; so what is acquired from the book or the professor, may be always at hand for the actual purposes of life.

IV. Some employments requiring more elaborate, and all somewhat different preparation, to meet various demands, there are in this Institution, three courses of study, viz: the Agricultural, the Scientific and the Classical. Graduates from these courses receive respectively, the degree of " Bachelor of Agricultural Science," " Bachelor of Science," and " Bachelor of Arts."

V. Elementary studies and exercises are so arranged that there is as little instruction for special pursuits as possible in the first three classes, where all are to study the rudimental branches together, diverging mainly toward particular employments in the studies, exercises and operations of the Junior year.

VI. No Student is promoted to a higher class except on merit,—the design being to make good scholars and not merely to grant degrees.

VII. Labor being conducive to the mental and physical health of all, especially in youth, and the culture of the earth in some form being not only the pursuit of the larger portion of the community, but that for the promotion of which this Institution was mainly established, a portion of the time of each student is given to work, so arranged as to be without detriment to his intellectual culture. In the three lower classes, whose studies are general and rudimental, all the students are required to labor a certain number of hours each week. But, after the Sophomore year,

no farm or household work is required of the students, and their hours of labor are chiefly devoted to scientific practice in the direction of their intended life employments.

VIII. The act of Congress of July 2d, 1862, which grants land-scrip to the several states for the support of Industrial Colleges, requires that all institutions which receive the benefit of that endowment shall have for their *leading object* to give instruction in *Agriculture* and the *Mechanic Arts*, and that they shall moreover make provision for teaching the Military Tactics and Army Regulations of the United States. To meet these requirements, Pennsylvania State College made as extensive and thorough provisions as its finances permitted, while it had no endowment, and depended for support solely upon the insufficient income arising from students' fees. It instituted thorough courses of instruction in Agriculture, in General Science, and in Military Tactics, but from want of adequate funds it could give only partial instruction in the branches relating to the Mechanic Arts. Now that the income arising from the land-scrip granted by Congress to the State of Pennsylvania has been appropriated to this College by the Act of Assembly of February 19th, 1867, the Trustees are able to adopt the requisite measures to make the College, in all essential points, fully respond to the object and requirements of the Act of Congress. To this end, they have added and made provision for a thorough course of instruction in Mechanical and Civil Engineering, in the interests of the Mechanic Arts. It will thus be seen that the College is now efficiently organized as a *Scientific School* of a high order in the educational interests of *industrial life*. At the same time the Trustees have kept in mind the additional requirement of Congress, that purely Classical and Literary studies shall not be excluded. Therefore, such provisions have been made, that our students are also afforded opportunities for preparation for the Legal, Medical and Clerical professions. Accordingly there are found upon our roll to day the names of students who have already announced their purpose to prepare for these callings. The Faculty has been selected with a scrupulous regard to the thorough performance of the educational work which the College has at present undertaken, and to the amount of funds placed at the disposal of the Board of Trustees. Additions of *Professors*, of *courses of study*, and *apparatus of instruction* will be made as they become necessary, for it is the purpose of the Board to make the College serve efficiently and in a liberal spirit, the end for which it has received from the State, the endowment granted by Congress.

IX. At the time of its organization it was the purpose of the founders of the College to extend its privileges to male students only; and for twelve years no provision was made for lady students. Three years ago several young ladies applied for admission, and after a careful consideration of the question the Trustees, on the 5th of September, 1871, voted to admit both sexes upon the same general conditions. It was felt that the important trust committed to the Board would not be fully administered while one half of the youth of our State were denied its advantages; and the experience of other institutions, several of them Industrial, justified the expectation of good results from the co-education of the sexes.

Therefore, ladies are now admitted to the same courses of study as gentlemen, are subject to the same general rules, and on the completion of their studies, receive the same certificates and degrees. Such separation of the sexes, and variation of labor for instruction and exercise, as prudence dictates are carefully secured; but the privileges enjoyed are equal, and the advantages derived from a residence at the College are as great in one case as in the other.

X. Upon application by the Trustees, the Court of Centre Co., at its January Term, 1874, changed the name of this Institution from the Agricultural College of Pennsylvania to Pennsylvania State College.

This change of name was needful because the old name not only failed to express the breadth of purpose contemplated by the laws, under which the College received its endowment, (see page 2,) but also misled many persons as to its real character. In many instances students were thus prevented from entering, being under the impression that the College was designed for those alone who intended to be farmers.

Under the change of name no change has been made in the course of studies or in the practical working of the Institution.

Description of the Institution.

THE COLLEGE.

THE COLLEGE BUILDING.—This is a plain, substantial structure of limestone, seated on a pleasant rise of ground, and is 240 feet in length, 80 feet in average breadth, and five full stories in height, exclusive of the basement; with ample Lodging-rooms, Chapel, Library, Society Halls, Laboratories, Cabinets and Refectory for 330 students. The whole is well heated, and well supplied with water. A large campus for exercise and drill, and extensive pleasure grounds, adjoin the building.

OTHER BUILDINGS.—There are also a President's house with grounds attached, one for the Vice-President, and one for the Superintendent of the farm; the other Professors occupy sets of apartments in the main building.

ASSETS.—In their present condition it is believed that for the purposes of education, the building and farms belonging to the institution are worth \$500 000, they having been built or purchased previous to the war and at the lowest cash rates. The farm stock, apparatus, furniture, &c., belonging to the corporation, is valued at \$32,000, and the endowment existing in the form of a bond of the State of Pennsylvania, is \$500,000, upon which interest is paid semi-annually, at the rate of six per cent. per annum.

THE LAND.

ITS POSITION.—The College property consists of a tract of 400 acres, of which 100 have been set off as a Model and experimental farm, and worked separate from the main college farm of 300 acres, though under the supervision of the Professor of Agriculture. The tract is in Harris township, Centre County, about 12 miles South of Bellefonte, and nearly equidistant from the opposite extremes of the State. It is near the middle, from north to south, of the broad rolling valley formed by the junction of Penn and Nittany valleys, which unite at the end of Nittany mountain, about 3 miles east of the College, with Tussey mountain on the south, and Muncy mountain on the north. The landscape is broad, varied and beautiful, the climate healthful, and the surrounding population intelligent, industrious and moral. The sale of intoxicating drinks within two miles of the College is prohibited by law.

THE COLLEGE FARM is now worked in five divisions or fields, of from 30 to 40 acres each, so as to ensure a regular succession of crops; the remainder of the tract being occupied by the college grounds, garden, orchard, and two pieces of woodland. The surface is moderately rolling; without any broken

land or swamps; the soil is limestone with a large admixture of flint, and admirably adapted to the production of Wheat, Indian Corn, Oats, Barley, and the various kinds of Grasses. It responds freely to the use of lime, of which large dressings are now applied, and of plaster of Paris, and the various artificial fertilizers. All the bread and vegetables and most of the meat consumed by the students and employees are produced on the place, and its productiveness is increasing. The improved stock now consists of Durham, imported Alderney and Holstein bulls, (the two former herd-book animals,) one pure and several grade Durham cows, and of several breeding swine of the Chester county breed.

THE FARM BUILDINGS are a large well arranged overshot barn, with double threshing floor, threshing house, corn cribs, and root house attached, and stabling for mules and other stock below, an extensive hog pen, a tool house, and a plough house. A wash house and a slaughter house are also on the premises and conveniently placed, and a well equipped carpenter shop.

THE GARDEN contains about six acres of prime land, and having all been sub-soiled or trenched, and well limed and manured, it is now highly productive. It has a stock of small fruit, such as currants, gooseberries, strawberries, &c.

The apple orchard of twelve acres, is just coming into good bearing. Cherries are in great variety and abundance. A fine vineyard has recently been set out.

FACILITIES FOR INSTRUCTION AND IMPROVEMENT.

THE CHAPEL is large enough to seat about four hundred persons, and is comfortably furnished. Here, at noon, the students meet for reading of Scriptures, singing, and prayer by the members of the Faculty in turn. At 9 A. M. every Sunday the students and professors meet as a Bible Class; at 3 P. M. there are regular services by clergymen of the vicinity, or of the Faculty acting as chaplains, and in the evening there is a Prayer Meeting. The Chapel is also used for General Lectures, and Rhetorical Exercises.

THE LIBRARY belonging to the College contains about fifteen hundred volumes, embracing Scientific and Technical works, Memoirs, Scientific Essays, Agricultural and Educational works, &c., in English, French and German, forming the nucleus of a fine scientific library. Certain scientific periodicals, purchased by the College for the use of the different departments of instruction, are also added to the Library from time to time as they accumulate,

CHEMICAL LABORATORIES.—The importance of Chemistry in its application to Agriculture and the Mechanic Arts and its value as an element of liberal education, claim for it a prominent place in each of the courses. The College offers special facilities for this study; the stock of apparatus is large and complete. Illustrations in teaching are drawn, as far as possible, from familiar sources, and all instruction is imparted in such practical form as to make it applicable to the daily wants of life.

In addition to study by text-book and lecture in the class room, students are, during a considerable portion of their course, employed from four to six hours per week in the chemical laboratory, in applying in practice what they have learned in theory. Each has charge of a quantity of apparatus and chemicals which he uses under the eye of a teacher in studying the effect of different agents upon one another, and in acquiring a knowledge of chemical analysis. This study is made progressive and carried on through successive classes after the first term of the Sophomore year, by which time he will have mastered the elements of Chemistry.

On entering the laboratory the student first studies the simplest principles of analysis, acquires the use of the blowpipe, &c., and learns to handle apparatus. In the higher classes he makes complete analyses of the different materials presented to him, learning to determine first the *quality* of the ingredients, afterwards their respective *quantities*. In these exercises, each student is given as far as practicable, a course of work most applicable to his intended pursuit in life.

Laboratories, with all the necessary appliances, are provided for students. Apparatus and chemicals used in the laboratory may be purchased at the College. The cost will depend in a great measure upon the care and skill of the student. Ordinarily it need not exceed \$15.00 for a Sophomore, and \$20.00 for a Junior. Apparatus which has been carefully used may be returned, subject to a discount of twenty-five per cent. on its cost, and the *actual* expense thus be much reduced.

Unusual facilities are afforded to those who desire to make the study of chemical analysis a speciality. Druggists, medical students and others desiring a partial course in this branch may enter at any time, and will receive on leaving the College, a certificate in testimony of the work they have accomplished. Such students will be subject to the rules elsewhere stated in regard to special students.

All chemical work in the laboratory is accompanied by lectures, explaining the theory of analysis, reactions involved, &c., such lectures being independent of the preliminary course in elementary chemistry.

To meet the wants of technical students a series of lectures in Technical Chemistry has been introduced into the Scientific Course. Students in this course will make extended excursions to manufactories and technical works where actual processes may be studied in detail.

MINERALOGY AND CRYSTALLOGRAPHY.—Instruction in Mineralogy will be imparted by lectures and by practice in the laboratory. While the study will be chiefly that of the chemical properties of minerals full attention will be paid to crystallographic and other physical properties which may aid in their identification.

Crystallography is taught first as a pure theory, in the study of perfect forms, before the student is led to examine the perplexing modifications presented by nature.

Illustration in the study of these sciences is furnished by a fine mineralogical cabinet and collection of crystal models.

PHYSICS.—The principles of the important science of Physics, embracing the subjects of forces, general properties of matter, light, heat, sound, electricity, &c., will be thoroughly imparted. A collection of apparatus for experimental illustration of these subjects is in possession of the College. This collection has been materially increased during the past year.

Students in Physics are employed for two hours per week in laboratory work connected with this study. They are here taught the use of the galvanic battery, specific gravity apparatus, photographic camera, spectroscope, &c.

TELEGRAPHY.—Through the liberality of a patron, a complete suit of Tillotson's best telegraphic apparatus, consisting of Register, Relay, Sounders, Keys, Batteries, &c., has recently been purchased for the College.

In this important branch of scientific industry, instruction will be given in not only the ordinary operations of transmitting and receiving messages, but also in the principles of Magnetism and Electricity, as applied to the Telegraph, the care of instruments and the management of the various kinds of batteries.

AGRICULTURE.—This study is designed to give to the student who pursues it a comprehensive and thorough knowledge of Agricultural principles and methods. A farm of 300 acres is used to demonstrate the principles taught in the class-room, affording students an opportunity to put in practice their theoretical knowledge of husbandry, and to study the processes from which the best results are obtained. Improved implements are used, and their adaptation to the purpose of their construction is explained. Cattle of various improved breeds are kept, and their characteristics are rendered familiar to the student, from actual observation. Soiling of cattle is practised, and the various forage plants suitable for this purpose are cultivated, their values compared and accounts kept, that the economy of the system may be accurately ascertained. The system of mixed husbandry is the one adopted, the intention being to illustrate every method in use in agriculture, and afford the student the opportunity of becoming acquainted with all the details of farming; and, since most men, irrespective of profession, look forward to the time when they will be able to enjoy rural life, by cultivating a portion of the earth, Students in the Freshman classes of *all* the courses are required to study Agriculture, and all students below the Junior Class are required to engage in the practice of it. A number of skilled workmen, sufficient to carry on the operations of the farm without the aid of the students, is employed, so that the demand for the labor of the student on the farm, may in no case interfere with his class-room exercises. Our chief object in requiring the practice of Agriculture, is education; while at the same time healthful exercise is thus provided for the students.

BOTANY.—The Botanical course extends over one year. Students, after having acquired a sufficient knowledge of *Structural Botany*, are required to make practical application of it in studying the plants of the district.

At least four hours a week, during the entire year, will be given to *analysis* of Plants. To such students as have completed this course of study, lectures are delivered on Economic Botany. In these lectures, the weeds and useful plants of cultivation, the native Flora and the Plants of commerce, with their natural history and modes of preparation and adulteration, and their general relation to the wants of man, are treated of.

Students who have shown an aptitude for the work, and who wish to prosecute this study further, have (under certain restrictions) access to the Library and Herbarium of the Professor of Botany, and also have the benefit of his personal supervision in their studies.

Diagrams and microscopes are used to illustrate the teachings of the classroom. Throughout the aim is to give a thorough practical turn to the studies of this department.

The College Herbarium contains several thousand species of plants. Most of them are from North America or Europe. Hence, the species with which the farmer is most likely to have to deal, are represented in the collection. It will be available for instruction in the institution.

THE GEOLOGICAL COLLECTION made by Prof. Rogers, during the geological survey of the State, is in possession of the College, and will afford a rare opportunity of becoming acquainted with the Geology of Pennsylvania. In addition to this, there is quite an extensive collection of typical European rocks belonging to the College.

Frequent *excursions* are made with the classes. The neighboring valleys and mountains afford rare opportunities for the study of Botany, Physical Geography, Paleontology and Geology. The great synclinal and anticlinal Paleozoic waves east of the Alleghenies, are here shown in every variety of position and angle of inclination; while good out-crops are to be seen of nearly all the subdivisions of Paleozoic rock, from the lowest to the coal measures.

HUMAN ANATOMY AND PHYSIOLOGY.—Instruction in this study is rendered clear by the use of the articulated skeleton, dry preparations and charts, and by the occasional dissections of the more important organs of animals. From these facilities, with constant access to the laboratory and the lectures, and directions of their medical studies by the proper Professors, young men intended for the medical profession, enjoy advantages met with in few private offices; while, at the same time, they are advancing their general education.

ZOOLOGY AND COMPARATIVE ANATOMY.—Students who have completed the course in Human Anatomy and Physiology, enter next upon the Comparative Anatomy and Physiology of the brute creation, and in this way become acquainted with the structure and qualities of those animals which are of immediate service to man, and of those which are obnoxious to the household and to the cultivator of the soil.

Particular emphasis is laid upon the habits of insects injurious to vegetation, and of those creatures which affect the health of domestic stock.

SURVEYING AND ENGINEERING.—The College is in possession of a Transit, Compass and Chains, for practical instruction, and other instruments will be added to meet the wants of the student.

He also enjoys the great advantage of studying, under the guidance of his instructor, the mechanical principles involved in the structure and operations of the following works, which are located in the vicinity of the College, viz.: *The Oak Hall Woolen Factory, Bellefonte Water Works, Gas Works, Glass Works, Steam Planing Mills, Steam Flouring Mills, Paper Mills, Car Works, Smelting Furnaces, Forges, Foundries, and Steel Wire Works, The Snow-Shoe Coal Mines*, and numerous other works, which are in successful operation, in the thriving industrial region, in the midst of which the College is situated.

LANGUAGE AND LITERATURE.—In this department, as well as in the Natural Sciences, the course of instruction aims to combine theory and practice—to teach the Science with, and through the Art. Hence, in the study of a language, ancient or modern, composition is used as an important help to the student, who is required not only to learn the rules of Etymology and Syntax, but also to apply them in the construction of sentences, and is also taught to examine the relations of languages, that his acquaintance with one may facilitate his acquisition of others. By employing such aids, the classical student may, it is believed, obtain as thorough a knowledge of Latin and Greek as is imparted at colleges which are exclusively literary, and yet may find time to avail himself largely of the special advantages for scientific study, which the institution affords. An elementary knowledge of French and German is recommended to all—even apart from the literary value of such studies—on account of the rich stores of information which those languages offer to the professional man and the student of science.

Since the ability to understand and to use aright his mother tongue, contributes to the usefulness as well as to the enjoyment of every man, whatever may be his pursuits, it has been thought proper to require of all students the writing of essays, and the careful study of our own language and its literature. The former exercise is so conducted, that while the student is made familiar with our present forms and idioms, he is also prepared for reading understandingly our early writers, such as Chaucer and Spenser; the study of the latter is chiefly through the critical reading of our best English writers, from Chaucer to Shakspeare, the main object being to introduce the student to the Literature itself, rather than to make him acquainted with its history.

STUDENTS' SOCIETIES.—There are two of these, named, respectively, the Cresson and the Washington Literary Societies. Each has a commodious hall, handsomely fitted up, a library of standard and miscellaneous works, and a reading-room. No Secret Fraternities are permitted in the institution.

ARMORY.—This is a large room, with proper rack, &c., and supplied with small arms and accoutrements, cavalry sabres, belts, &c., and foils and their appendages for fencing. The College also has a number of tents, and two six-pounder brass field pieces, with caissons, etc., complete.

SPECIAL PREPARATION OF STUDENTS.

INTENDED PROFESSION.—After a sufficient course of general preparation in study, the studies and employments of each student are especially directed either to Agriculture, General Science, Mechanics, or higher Literature, as may be desired.

IRREGULAR STUDENTS.—Students whose parents or guardians desire them to pursue particular branches without graduating, are permitted to do so, on the payment of the same charges as the class to which they respectively belong, subject to the same rules as to labor. To such, upon their leaving the College, Certificates will be given, setting forth the special studies pursued by them, and their proficiency in them.

MILITARY INSTRUCTION.

The male students are organized as military companies, under the charge of cadet officers. There are daily inspections of rooms by the company officers, inspection of arms and accoutrements once a week, and drill twice a week.

Written reports are made to the Military Instructor, as Commandant, daily and weekly, by the company and battalion officers. In the Spring Session the cadets camp out for several days, and thus receive instruction which could not be so well secured in ordinary college life.

Students who have conscientious scruples against bearing arms, or whose parents or guardians request in writing that they may be exempted, for conscience' sake, will not be required to drill; but they, and others who may be exempted for reasons satisfactory to the President, will work three hours each week, at such times as may be assigned to them.

UNIFORM.

Each male student, of the height of five feet or over, is required to provide himself with a uniform, consisting of coat and pantaloons of cadet gray, and a black hat; the whole to be made and trimmed according to a pattern in the College.

In order to secure perfect uniformity and cheapness, it is necessary that all the uniforms shall be furnished by one establishment. Therefore, students are required to procure their uniforms from M. C. Thackray, No. 1748 North 13th St., Philadelphia. They can have their measures taken at the College, and receive their clothing from Mr. Thackray, by express. The suit, complete, will cost from \$30 to \$37.

LABOR.

THE LABOR RULE, at present, requires an average of *ten* hours' labor each week, by each student in the Preparatory, Freshman and Sophomore Classes, which is rendered in details of four hours, either in the forenoon or afternoon, on alternate days, except Saturdays, when both labor and recitations are suspended. The work is on the farm or in the garden, barn, or workshop, as the case may be, under proper superintendence. Students in the Junior and Senior classes do an amount of work equal to the above, by practice in the laboratories, surveying, &c.

THE CENTRAL EXPERIMENTAL FARM.

ITS OBJECTS.—This is one of three farms, the others being in Chester and Indiana Counties, directed by law to be established and conducted as Model Farms, equipped with the most convenient kind of buildings and apparatus, and farmed in the best manner by hired labor, to serve as examples in successful practical agriculture; and also as Experimental Farms, to test by experiments in sufficient series, and to decide by results, those numerous doubtful questions, as to modes of culture, relative value of manures, kinds of seed, succession of crops, qualities of live stock, &c., which perplex the farmer, and to make known these results, when sufficiently verified, to the public.

The greater portion of each tract is devoted to the general Model Farm, and the remainder to the trial of experiments.

ADVANTAGES TO THE STUDENT.—In both respects they will be highly useful and instructive to the inquiring farmer; and the one near this institution holds out much promise of benefit to the agricultural student. By attention to its processes and its crops, which are in great variety as to culture, manure, seeds, and treatment on the Experimental Plots, and by consulting the periodical records of each, which are regularly made from weight and measure, and other data, as to soil, weather, &c., and open to the inspection of all, a certainty of knowledge, based on a series of similar experiments for a succession of years, may be arrived at, which by no other means, and by no private agency is attainable. Students are furnished with plans and descriptions of these Experimental Plots, to enable them at all times to know the crop and treatment of each division, without the necessity of application to the superintendent for that purpose.

THE MECHANICAL DEPARTMENT is in charge of a skillful and experienced Master Mechanic, with proper blacksmith and carpenter tools and other appliances, for the repairs of the building and fixtures, and of the farming implements, and for the manufacture of such new articles for use as may be constructed on the place. In this work he is to be assisted, when necessary and desirable for the purpose of instruction, by students during their regular work hours.

PECUNIARY COMPENSATION FOR WORK.—A limited number of students, desirous of remaining at the College during vacations, are retained to assist in the work of the farm, garden, &c., and paid a reasonable compensation, with board, lodging and washing, and the use of the Library, &c. During term time such students as desire employment, and, without interfering with their studies, can perform labor on the farm, in the building, the shops, or elsewhere, in addition to that which may be regularly required of them, will be employed at fair wages, upon all occasions when extra help may be needed.

AGRICULTURAL SOCIETY SCHOLARSHIP.—The Agricultural Society of Centre County, has generously arranged to pay the regular College bills of two students from that County; and similar organizations in several other counties, and the State Society, are contemplating somewhat similar action. Students seeking the benefits of the Scholarship of Centre County, are required to be under sixteen years of age, and to excel in a competitive examination in the studies which are preparatory to admission to the Freshman Class. They will be supported during four years, if their deportment and devotion to study shall justify the continuance of the favor.

PRIZES.

The following prizes will be awarded at the close of the present collegiate year.

THE BURGAN PRIZE, the gift of Prof. E. T. Burgan, to that Student in the Preparatory Course who shall excel in mental and written Arithmetic.

THE MCALLISTER PRIZE, the gift of Gen. Jas. A. Beaver, to that member of the Freshman Class who shall excel in the studies preparatory to admission to College.

THE MATHEMATICAL PRIZE, to that member of the Freshman Class who shall excel in Algebra.

THE LADIES' PRIZE, the gift of Mrs. Jos. C. Turner, to that female student who shall excel in household duties.

THE AGRICULTURAL PRIZE, to that member of the Senior Class who shall excel in the studies of the Agricultural Course.

THE KANE PRIZE, the gift of Hon. D. Kane, to that member of the Junior Class who shall excel in the composition and delivery of an English Oration.

THE PRESIDENT'S PRIZE, to that Student who shall excel in Deportment.

THE TURNER PRIZE, the gift of Jos. C. Turner, Esq., for the greatest improvement in Deportment.

THE ORVIS PRIZE, the gift of Hon. Jno. H. Orvis, to the Student who shall excel in the Mathematical Studies of the Sophomore Year.

THE MONTGOMERY COUNTY PRIZE, the gift of Wm. B. Roberts, Esq., to the Senior excelling in Physics.

THE EBY PRIZES, 1st and 2d, the gift of J. R. Eby, Esq., to the students excelling in competitive plowing.

PRIZES AWARDED 1873.

The BURGAN.....	to.....	A. Russell Calder.
The McALLISTER.....	"	George A. Brown.
The MATHEMATICAL.....	"	William M. Manly.
The LADIES'.....	"	Anna M. Stackhouse.
The KANE.....	"	Thomas W. Burkholder.
The PRESIDENT'S.....	"	Wm. Calder, Jr.

SESSIONS AND VACATIONS.

SESSIONS.—The College Year is divided into two sessions :

THE FALL SESSION of 16 weeks, beginning on the fourth Friday of August, and ending on the second Friday of December.

THE SPRING SESSION of 24 weeks, beginning on the second Friday in February, and ending on the last Friday in Ju y.

VACATIONS.—The Winter Vacation is eight weeks, and the Summer four.

ADMISSION.

STUDENTS will be received at any time, and admitted to the classes they may be qualified to enter; but entrance on the first day of the session will greatly benefit the student. Students from other States are received on the same terms, and to equal privileges, with those from Pennsylvania.

CHARGES.

No charge whatever is made for Tuition, except in Music.

Each student, whether from a distance or a resident in the neighborhood, is required to pay \$20 a year for the fuel, lights and care of the recitation and other public rooms, viz: \$8 for the Fall Session, and \$12 for the Spring. This is the only charge made to pupils who do not room in the College.

The additional charges to those who room in the College building are as follows:

 FALL SESSION.

Rent for each room, without regard to the number of persons who use it, ...	\$ 5.00
Fuel for one stove, ...	10.00
Use of Furniture, ...	2.00

SPRING SESSION.

Rent for each room, ...	\$ 7.00
Fuel for one stove, ...	14.00
Use of Furniture, ...	3.00

THE FURNITURE provided by the College for students who room in the building consists of a stove, bedstead, mattress, bolster, table, washstand and chairs. The occupants of each room, therefore, will provide their own carpet, mirror, wash-bowl and pitcher, pail, broom, lamp and oil-can; and each person should bring with him two blankets, three single sheets, two bolster cases, one pillow, three pillow-cases, a comfortable, a spread, and several towels. All articles should be marked with the full name of the owner.

BOARDING can be obtained from the lessee of the College boarding hall and from families in the neighborhood at various rates, none of which exceed \$3.75 per week. A boarding club has been organized, and every encouragement will be given to students who desire to thus diminish their expenses.

WASHING is at the rate of 50 cts. per dozen.

MUSIC.—Instruction on the Piano or Organ will be given at the rate of \$10 for 20 lessons, and \$3 per quarter for the use of instruments in practising.

ALL COLLEGE CHARGES are payable in advance, at the beginning of the respective sessions.

DAMAGES.—Persons causing special damages will be required to pay for the same.

ANNUAL TRIAL OF IMPLEMENTS.

Inventors and Proprietors of agricultural implements are invited to be present during commencement week, with their implements for exhibition and trial.

All persons accepting this invitation are expected to notify the President on or before July 27th, when trials will begin as heretofore at 1.30 P. M. on Tuesday, July 28th.

MEANS OF ACCESS.

A turnpike from the College gate to the end of Nittany mountain, connecting with the turnpike from Boalsburg, affords a good continuous road to Bellefonte, with a daily stage and mail in both directions.

Bellefonte is connected with Tyrone, on the Pennsylvania Central Railroad, by two daily trains to and from that station, and with Lock Haven on the Philadelphia and Erie Railroad in the same manner. By Tyrone, passengers from the south-eastern, southern and south-western portions of the State, and by Lock Haven, those from the north-eastern, northern and north-western, can daily reach Bellefonte, where the stage to the College meets them every afternoon at one o'clock. The return stage leaves the College every morning in time for the trains east and west from Bellefonte.

A Railroad, connecting Lewisburg, on the Philadelphia and Erie Railroad, with Tyrone, on the Pennsylvania Central, and passing near the College, has been located and partly finished. It is probable it will be completed within a year. Good Hotel accommodations for parents and other visiting friends can be had near the College.

The address of students and other persons connected with the College is,

"STATE COLLEGE P. O.,

" Centre County, Pa."

RULES.

STUDENTS ARE REQUIRED:

1. To conduct themselves in an orderly and gentlemanly manner at all times.
 2. To be punctual in their attendance upon all College exercises.
 3. To observe neatness in dress at prayers, at meals and at recitations.
 4. To wear the prescribed uniform at Sabbath services, and at drill.
 5. To keep their rooms neat and clean.
 6. To present to the proper officer, three weeks before delivery, all literary productions designed for public performance.
-

STUDENTS ARE FORBIDDEN:

7. To be absent during study hours from the building in which they room without permission.
8. To make or receive visits which may conflict with proper attention to study.
9. To use musical instruments during study hours.
10. To possess or use any keys belonging to rooms which they have no right to enter.
11. To enter the boarding or laundry department without permission.
12. To use tobacco in or about the College, except in their own rooms, or to smoke in or near any College building, or on detail.
13. To throw refuse matter of any kind from the windows or doors.
14. To have pistols or to discharge fire-arms in the building or on the campus.
15. To associate with students of the opposite sex during either session or vacation, without special permission of the President and the Preceptress.
16. To continue any entertainment, or meeting, beyond 10 P. M., except Society Anniversaries, which must not extend beyond 11 P. M.

CALENDAR.

1873.

Fall Session began, ...	Friday, Aug. 22d.
Anniversary of Cresson Society, ...	Friday, Nov. 14th.
Thanksgiving—Holiday, ...	Thursday, Nov. 27th.
Session examinations began, ...	Monday, Dec. 8th.
Fall Session ended, ...	Friday, Dec. 12th.

VACATION OF NINE WEEKS.

1874.

Spring Session opened, ...	Friday, Feb. 13th.
15th Anniversary of the opening of the College, ...	Monday, Feb. 16th.
Washington's Birthday, ...	Sunday, Feb. 22d.
Anniversary of Washington Society, ...	Friday, May 22d.
Senior examination begins, ...	Monday, June 29th.
Senior Vacation begins, ...	Thursday, July 2d.
Independence Day—Holiday, ...	Saturday, July 4th.
Baccalaureate Sermon, ...	Sunday, July 26th.
Session examination begins, ...	Monday, July 27th.
Trial of Mowers, ...	Tuesday, July 28th.
Trial of Reapers, ...	Wednesday, July 29th.
Meeting of Delegates to elect Trustees, ...	Wednesday, July 29th.
Annual Meeting of Trustees, ...	Wednesday, July 29th.
Junior Contest for Kaine Prize, ...	Wednesday, July 29th.
GRADUATION DAY, ...	Thursday, July 30th.
Annual Meeting of Alumni, ...	Thursday, July 30th.
Spring Session ends, ...	Friday, July 31st.

VACATION OF FOUR WEEKS.

Fall Session opens, ...	Friday, Aug. 28th.
Anniversary of Cresson Society, ...	Friday, Nov. 13th.
Thanksgiving—Holiday, ...	Thursday, Nov. 26th.
Session examination begins, ...	Monday, Dec. 14th.
Fall Session ends, ...	Friday, Dec. 18th.

VACATION OF EIGHT WEEKS.

INDEX.

	Page.
ADMISSION, ...	31
AGRICULTURE, STUDY OF, ...	25
AGRICULTURAL COURSE, ...	13
ANATOMY, ...	26
ANATOMY, COMPARATIVE, ...	26
ANNUAL TRIAL OF IMPLEMENTS, ...	32
ARMORY, ...	27
BOTANY, ...	25
CALENDAR, ...	35
CHAPEL, ...	23
CHARGES, ...	31
CHEMICAL LABORATORIES, ...	23
CLASSICAL COURSE, ...	16
COLLEGE BUILDINGS, ...	22
COLLEGE OFFICERS, ...	3
COMPENSATION FOR WORK, ...	30
COURSES OF STUDY, ...	13
DAMAGES, ...	32
ENGINEERING, ...	27
EXPERIMENTAL FARM, ...	29
FACILITIES FOR INSTRUCTION, ...	23
FACULTY, ...	4
FRESHMEN, NAMES OF, ...	9
FURNITURE, ...	32
GENERAL PRINCIPLES, ...	18
GEOLOGICAL COLLECTION, ...	26
INTENDED PROFESSION, ...	28
INSTITUTION, DESCRIPTION OF, ...	22
INSTITUTION, OBJECT OF, ...	2
IRREGULAR STUDENTS, ...	28
JUNIORS, NAMES OF, ...	7
LABOR, ...	29
LADIES, ADMISSION OF, ...	20
LAND, ...	22
LANGUAGES, ...	27
LIBRARY, ...	23

	Page.
LITERATURE, ...	27
MEANS OF ACCESS, ...	33
MECHANICAL DEPARTMENT, ...	29
MILITARY COMPANIES, OFFICERS OF, ...	6
MILITARY COURSE, ...	17
MILITARY INSTRUCTION, ...	28
MILITARY TACTICS, ...	17
MINERALOGY AND CRYSTALLOGRAPHY, ...	24
MUSIC, ...	32
NAME, CHANGE OF, ...	21
OBJECT OF THE INSTITUTION, ...	2
OFFICERS OF TRUSTEES, ...	3
OFFICERS OF MILITARY COMPANIES, ...	6
PHYSICS, ...	25
PHYSIOLOGY, ...	26
POST OFFICE ADDRESS, ...	33
PREPARATORY STUDENTS, ...	10
PRIZES, ...	30
RECAPITULATION, ...	12
RULES, ...	34
SCHOLARSHIPS, ...	30
SCIENTIFIC COURSE, ...	14
SENIORS, NAMES OF, ...	7
SESSIONS, ...	31
SOPHOMORES, NAMES OF, ...	8
STUDENTS' SOCIETIES, ...	27
STUDENTS, NAMES OF, ...	7
SUPERINTENDENTS, ...	5
SURVEYING, ...	27
TELEGRAPHY, ...	25
TRIAL OF IMPLEMENTS, ...	32
TRUSTEES, ...	3
UNIFORM, ...	28
VACATION, ...	31
ZOOLOGY, ...	26